

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Takayama, *et al.*  
Serial No.: 10/559,724  
Filed: 05/24/2006  
Entitled: Integrated microfluidic sperm isolation and insemination device

Group No.: 4118  
Examiner: Mehmood

**DECLARATION OF INVENTOR  
SHUICHI TAKAYAMA UNDER 37 C.F.R. § 1.132**

EFS Web Filed  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

<b>CERTIFICATE OF TRANSMISSION UNDER 37 C.F.R. § 1.18</b>	
I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being transmitted to the United States Patent and Trademark Office transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).	
Dated: June 8, 2009	By: Michele R. Gilmer Michele R. Gilmer

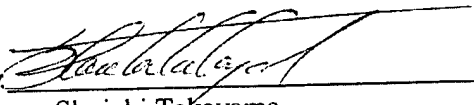
To Whom It May Concern:

1. I certify that Shuichi Takayama, Gary D. Smith, and Ronald Suh are the inventors of the subject matter embodied in the above-identified patent application.
2. I have read and understand the specification and claims of the above-named patent publication.
3. I am listed as a co-inventor, along with 3 other inventors (Gary D. Smith, Timothy G. Schuster, and Brenda S. Shen) on the U.S. Patent Application No. 10/559,742 filed Jun 7, 2004.

4. I confirm that, with respect to the reference listed in paragraph 3, that none of the listed inventors other than Shuichi Takayama and Gary D. Smith were involved with the inventive process relating to the present invention. Timothy G. Schuster and Brenda S. Shen were inventors of subject matter claimed in the reference listed in paragraph 3, but were not inventors of the subject matter embodied in the present patent application.

5. The undersigned declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Dated: June 8, 2009

By:   
Shuichi Takayama